



Ground-Military Power Units

AMF Series 500VA~400KVA 400Hz Solid State Frequency Converter
ADS Series 28V_{DC}/50A~4500A 28V DC Power Supply

Profession Power Solution Provider

AMF-

3 Input Phase	1 Output Phase	060 Capacity 60KVA	F Outlook Free Standing	T Input Voltage 220/380VAC
-------------------------	--------------------------	---------------------------------	--------------------------------------	-----------------------------------------

[Pls refer to Form I at P.4] [Pls refer to Form II at P.4]

AMF Series Case Number & Size

[Unit of Measurement: mm (Width x Depth x Height)]



AMF Series-Single Phase

Model	AMF-500W	AMF-11001	AMF-11003	AMF-11005	AMF-11010	AMF-31020	AMF-31030	AMF-31045	AMF-31060	AMF-31100	
Capacity	500VA	1KVA	3KVA	5KVA	10KVA	20KVA	30KVA	45KVA	60KVA	100KVA	
Circuit Type	IGBT / Pulse Width Modulation Type										
Input (AC)	Phase	1Phase 2W + G				3Phase 3W+G (Δ) or 3Phase 3W+N+G (Y)					
	Voltage	110(B) or 220V(G) ± 15% ①	220V (G) ± 15% ①			220V (G) ± 15% or 220V/380V (T) ± 15% ①					
	Frequency	50Hz ± 3Hz, 60Hz ± 3Hz									
Output (AC)	Phase	1Phase 2W + G									
	Voltage	115V (C) or 220V (G) ,230V (H) Output Voltage +/-10% Adjustable ①									
	Frequency	2-Step Output Frequency: 400Hz Fixed,350Hz~450Hz adjustable ('can comply with customer's specs)									
Frequency Stability	≤ 0.01%										
Load Regulation	≤ ± 1%					≤ ± 1.5%					
Total Harmonic Distortion	≤ 2%					≤ 3%					
Meter/ Res	4 Digit Freq. Meter	Res.0.1Hz									
	4 Digit Voltmeter	Res.0.1V									
	Digit Ammeter	0.001A	0.01A	4 Digit Ammeter / Res. 0.1A			5 Digit Ammeter / Res. 0.1A				
Overload Capability	120% / 1hr,150% /1min,200% / 15sec,25% duty cycle.										
Protection	Input Circuit Breaker, Output Circuit Breaker, Electronic Circuits for fast detection and trip off protection for Over Current, Over Voltage, Over Load, Over Temperature, Short Circuit and Alarm system										
Isolation Resistance	≥ 500Vdc 20MΩ										
Withstand Voltage	1800Vac / 5mA / 1min										
Cooling System	Air Forced Fan										
Ambient Temperature	- 20°C~45°C										
Relative Humidity	0~90% Non-condensing										
Case Number ②	①	②			③	④		⑤		⑥	
Net Weight(kg) ②	44	60	73	89	150	280	333	418	571	898	

- Remarks: ① For the other voltages, please refer to Form 1.
 ② The dimensions and weights vary with voltage. For detailed information, please consult with our sales rep.
 ③ The above dimensions and weights are for Free Standing type only. As to the other types (e.g. T=Trailer, B= Bridge Mount, W=Wall Mounted, O=Open Frame), please consult with our sales rep.
 ④ One year warranty.
 ⑤ All specifications are subject to change without prior notice.
 ⑥ 36VAC on request, or comply with customer's specs.
 ⑦ Add on module of 400Hz Frequency Converter and 28VDC DC Power Supply on request.



800×1090×1600



920×1250×1700



2000×1000×2000

AMF Series-Three Phase

Model	AMF-33006	AMF-33010	AMF-33020	AMF-33030	AMF-33045	AMF-33060	AMF-33075	AMF-33100	AMF-33150	AMF-33180
Capacity	6KVA	10KVA	20KVA	30KVA	45KVA	60KVA	75KVA	100KVA	150KVA	180KVA
Circuit Type	IGBT / Pulse Width Modulation Type									
Input (AC)	Phase	3Phase 3W+G (Δ) or 3Phase 3W+N+G (Y)								
	Voltage	3W+G: 220V (G) or 3W+N+G: 220V/380V (T) ±15% ①								
	Frequency	50Hz ±3Hz, 60Hz ±3Hz								
Output (AC)	Phase	3Phase 3W+N+G (Y)								
	Voltage	200V/115V (P) Output Voltage +/-10% Adjustable ①								
	Frequency	2-Step Output Frequency: 400Hz Fixed,350Hz~450Hz adjustable ('can comply with customer's specs)								
Frequency Stability	≤0.01%									
Load Regulation	≤ ±1%					≤ ±1.5%				
Total Harmonic Distortion	≤2%					≤3%				
Meter/ Res	4 Digit Freq. Meter	Res.0.1Hz								
	4 Digit Voltmeter	Res.0.1V								
	Digit Ammeter	4 Digit Ammeter / Res. 0.1A					5 Digit Ammeter / Res. 0.1A			
Phase Shift	Balanced Load / Empty Load: =+/-2%; 100% Unbalanced Load: =+/-4%									
Overload Capability	120% / 1hr,150% /1min,200% / 15sec,25% duty cycle.									
Protection	Input Circuit Breaker, Output Circuit Breaker, Electronic Circuits for fast detection and trip off protection for Over Current, Over Voltage, Over Load, Over Temperature, Short Circuit and Alarm system									
Isolation Resistance	≥ 500Vdc 20MΩ									
Withstand Voltage	1800Vac / 5mA / 1min									
Cooling System	Air Forced Fan									
Ambient Temperature	-20°C~45°C									
Relative Humidity	0~90% Non-condensing									
Case Number ②	③	④	⑤	⑥	⑦					
Net Weight(kg) ②	150	175	345	385	528	635	700	1000	1350	1800

Remarks: ① For the other voltages, please refer to Form 1.

② The dimensions and weights vary with voltage. For detailed information, please consult with our sales rep.

③ The above dimensions and weights are for Free Standing type only. As to the other types (e.g. T=Trailer, B= Bridge Mount, W=Wall Mounted, O=Open Frame), please consult with our sales rep.

④ One year warranty.

⑤ All specifications are subject to change without prior notice.

⑥ 36VAC on request, or comply with customer's specs.

⑦ Add on module of 400Hz Frequency Converter and 28VDC DC Power Supply on request.



F - Free Standing Unit



T - Trailer Unit



B - Bridge Mounted Unit

Form I: AMF Series Outlook

F	Free-Standing Unit (Standard)	T	Trailer Unit
B	Bridge-Mounted Unit	W	Wall Mounted Unit

Form II: AMF Input Voltage Range

A	100 V	1 \emptyset W+G	O	110/190 V	3 \emptyset 4W+G or 3 \emptyset 3W+N+G (Y-connection)	
B	110 V		P	115/200 V		
C	115 V		Q	120/208 V		
D	120 V		R	127/220 V		
E	200 V	1 \emptyset 2W+G or 3 \emptyset 3W+G (Δ -connection)	T	220/380 V		
F	208 V		U	230/400 V		
G	220 V		V	240/415 V		
H	230 V		W	254/440 V		
I	240 V	3 \emptyset 3W+G (Δ -connection)	X	100/200 V		1 \emptyset 3W+G
J	380 V		Y	110/220 V		
K	400 V		Z	115/230 V		
L	415 V					
M	440 V					
N	480 V					

* Other Input Voltages not listed in this form are all S (Special Specification) type.

AMF Series Features & Advantages

- **Small, Light & Space Saving:** Typically, 1/4 size of motor-generator sets of the same power output rating.
- **High Efficiency, Optimum Stability, Superior Heat Dissipation.**
- **Cost Effective:**
 - Modular design permits quick and easy replacement.
 - High efficiency features reduce operating costs through 25% and upward utility savings compared to motor-generator sets.
 - On-site repairs are easily accomplished.
 - Motor-generator sets quite often must be removed from location for repairs, resulting in costly construction charges.
 - Solid State design eliminates the need for a concrete pad for mounting.
- **Low Noise:**
 - Solid State frequency converters have no moving mechanical parts generating a loud noise.
 - Its low audible noise level eliminates the need for expensive sound insulation.
- **Low Harmonic Distortion:** Total harmonic distortion at 3% max.
- **Pure Output Power Quality:** Double Conversion. It provides clean and consistent sine wave output.
- **±10% Output Voltage Adjustable.**
- **Two Stage Output Frequency:** 400Hz Fixed Frequency, 350Hz~450Hz Adjustable. (Can make as per customer's specification.)
- **Abnormal Protection:** Electronic circuits for fast detection and trip off protection for Over current, over voltage, over temperature, short circuit and Alarm system.
- **Strong Overload Capability:** 120% - 1 hour, 150% - 1 minute, 200% - 15 seconds at 25% duty cycle.
- **Individual Phase Regulation at Output:** Excellent voltage regulation under 100% unbalance load.
- **Output Isolation Transformer, capable to sustain CEMF (counter-electromotive force).**
- **MIL-STD-704 compliant.**
- **Option:**
 - 36VAC input voltage or according to customer's specifications.
 - Add on module of Solid State frequency converter and 28VDC power supply on request.



ADS Series

SCR Type DC Power Supply

28V / 50A~4500A

Professional Power Solution Provider

ADS -
ADS Series
DC Power Supply

28
Output Voltage
28 VDC

600
Output Current
600 A

F
Outlook
Free Standing

T
Input Voltage
220/380 VAC

[Please refer to Form 1 at P.8]

ADS Series Case No. & Size - Trailer Type (T)

[Unit of Measurement: inch/mm (Width×Depth×Height)]



ADS DC Power Supply Specification-1

Model	ADS-28-50		ADS-28-100		ADS-28-200		ADS-28-300		ADS-28-400		
Capacity	1.5kVA	4.5kVA	3kVA	9kVA	6kVA	18kVA	9kVA	27kVA	12kVA	36kVA	
Circuit Type	SCR										
Input	Phase	3Phase 3W+G (△) or 3 Phase 4W+G (Y)									
	Voltage	220V/380V ①									
	Voltage Range	±10%									
	Frequency	60Hz±3Hz or 50Hz±3Hz									
Output	Voltage	28VDC±10% Adjustable (25.2VDC ~ 30.8VDC)									
	Rate Current	0~50A		0~100A		0~200A		0~300A		0~400A	
	Overload Capacity	None	150A	None	300A	None	600A	None	900A	None	1200A
	Current-limiting adjustable	2~50A	7~150A	5~100A	15~300A	10~200A	30~600A	15~300A	45~900A	20~400A	60~1200A
	Line Regulation	≤0.5%									
	Load Regulation	≤0.5%									
Ripple(Vrms)	≤1%										
Indicator	Digital Voltmeter	28.0 V		28.0 V		28.0 V		28.0 V		28.0 V	
	Digital Ammeter	50.0A	150.0A	100.0A	300.0A	200.0A	600.0A	300.0A	900.0A	400.0A	1200.0A
Protection	Over-Voltage; Over-Current; Over-temperature; Short-circuit protection										
Cooling System	Air Forced Fan										
Environment	-20°C ~ +45°C/500meter(Altitude) /Prevent against dust and dust from carbon bush										
Humidity	0~90% (Non-condensing) Continuous working										
Resistance	≥10MΩ (500Vdc)										
Withstand voltage	1500Vac 10mA/1min No-flashover or punch-through										
Noise	< 65dB										
Remote Monitoring	Adjust output voltage range from 0~100% via 0~5Vdc external. (option)										
Case	Trailer type	①		①		①		①		①	
	Free standing type	③		③		③		③ ④		③ ④	
Weight (Lb/Kg)	Trailer type	507/230	660/300	570/260	728/330	660/300	815/370	728/330	882/400	794/360	948/430
	Free standing type	330/150	400/180	375/170	441/200	441/200	530/240	507/230	661/300	595/270	728/330

- Remarks:
- ① Other required voltage, please kindly refer to Form 1;
 - ② No compensating function;
 - ③ Custom-made specifications are on request;
 - ④ Outlook: F-Free standing type, T-Trailer type, B-Bridge mounted type, W-Wall mounted type;
 - ⑤ One year warranty;
 - ⑥ All specifications are subject to change without prior notice.

ADS Series Case No. & Size - Free Standing Type (F)

[Unit of Measurement: inch/mm (Width×Depth×Height)]

3



17×30×45 (inch)
430×750×1145 (mm)

4



24×39×54 (inch)
600×980×1355 (mm)

5



32×40×69 (inch)
800×1000×1750 (mm)

ADS DC Power Supply Specification-1

Model	ADS-28-500		ADS-28-600		ADS-28-800		ADS-28-1000		ADS-28-1500		
Capacity	15kVA	45kVA	18kVA	54kVA	24kVA	72kVA	30kVA	90kVA	45kVA	135kVA	
Circuit Type	SCR										
Input	Phase 3 Phase 3W+G (Δ) or 3 Phase 4W+G (Y)										
	Voltage 220V/380V ①										
	Voltage Range ±10%										
	Frequency 60Hz±3Hz or 50Hz±3Hz										
Output	Voltage 28VDC±10% Adjustable (25.2VDC ~ 30.8VDC)										
	Rate Current 0~500A		0~600A		0~800A		0~1000A		0~1500A		
	Overload Capacity	None	1500A	None	1800A	None	2400A	None	3000A	None	4500A
	Current-limiting adjustable	25~500A	75~1500A	30~600A	90~1800A	40~800A	120~2400A	50~1000A	150~3000A	75~1500A	225~4500A
	Line Regulation	≤0.5%									
	Load Regulation	≤0.5%									
Ripple(Vrms)	≤1%										
Indicator	Digital Voltmeter 28.0 V		28.0 V		28.0 V		28.0 V		28.0 V		
	500.0 A	1500.0 A	600.0 A	1800.0 A	800.0 A	2400 A	1000.0 A	3000 A	1500.0 A	4500 A	
Protection	Over-Voltage; Over-Current; Over-temperature; Short-circuit protection										
Cooling System	Air Forced Fan										
Environment	-20°C ~ +45°C/ 500meter(Altitude) / Prevent against dust and dust from carbon bush										
Humidity	0~90% (Non-condensing) Continuous working										
Resistance	≥10MΩ (500Vdc)										
Withstand voltage	1500Vac 10mA/1min No-flashover or punch-through										
Noise	< 65dB										
Remote Monitoring	Adjust output voltage range from 0~100% via 0~5Vdc external. (option)										
Case	Trailer type ②		②		②		—		②		
	Free standing type ④		④		④		⑤		⑤		
Weight (Lb/Kg)	Trailer type 882/400		1036/470		926/420		1080/490		992/450		
	Free standing type 640/290		772/350		728/330		838/380		816/370		
	1433/650		1213/550		1280/580		1102/500		1124/510		

- Remarks: ① Other required voltage, please kindly refer to Form 1;
 ② No compensating function;
 ③ Custom-made specifications are on request;
 ④ Outlook: F-Free standing type, T-Trailer type, B-Bridge mounted type, W-Wall mounted type;
 ⑤ One year warranty;
 ⑥ All specifications are subject to change without prior notice.

ADS Series DC Power Supply Characteristics

- ▲ Used as a DC power supply unit or voltage simulating test for GPU / Military Unit.
- ▲ 28Vdc \pm 10% Standard Output Voltage; 50Amp to 4,500Amp Output Current.
- ▲ Automatic Input Line Monitoring.
- ▲ Output Voltage and Output Current Monitoring.
- ▲ Current Limit Adjustable.
- ▲ Auto Feedback Control Circuits. Capable to adjust input and output automatically for constant voltage constant current.
- ▲ Fixed voltage Fixed current. Interchangeable to have control and protection features.
- ▲ Protection:
 - Input Line Loop: Auto detection and trip for Over Current, Over Voltage, Loss Phase, Phase Reversed
 - Output Circuit: Electronic-controlled Short Circuit protection.

Form1: ADS Series Input Voltage Range

A	100 V	1 \emptyset 2W+G	O	110/190 V	3 \emptyset 4W+G or 3 \emptyset 3W+N+G (Y-Connection)	
B	110 V		P	115/200 V		
C	115 V		Q	120/208 V		
D	120 V		R	127/220 V		
E	200 V	1 \emptyset 2W+G or 3 \emptyset 3W+G (Δ -Connection)	T	220/380 V		
F	208 V		U	230/400 V		
G	220 V		V	240/415 V		
H	230 V		W	254/440 V		
I	240 V	3 \emptyset 3W+G (Δ -Connection)	X	100/200 V		1 \emptyset 3W+G
J	380 V		Y	110/220 V		
K	400 V		Z	115/230 V		
L	415 V					
M	440 V					
N	480 V					

* Other Input Voltages not listed in this form are all S (Special Specification) type.

APPLICATION & SERVICE

AC Power Corp. offers products widely applied in multi-professional fields and provides the best power solutions to customers. Our mission is to satisfy customers' demand by considering the whole conditions including power environment, loading allocation, module solution alternative, thoughtful design, efficient manufacturing, and complete maintenance.

Application



Aircraft manufacturing



Aircraft Maintenance Plant



Rotary Engine Manufacturing



Engine maintenance



Hangar



Airport apron



Air Bridge



Control Center



Military aircraft / helicopter



Navy System Diagnostics



Military System Diagnostics



Radar / Military Equipment

Aircrafts

- **Aerospatiale**
ATR-42, ATR-72
- **Airbus**
A300, A310, A320, A340
- **Boeing**
727, 737, 747, 757, 767, 777
- **British Aerospace**
BAC 1-11, Bae146
- **Canadair**
- **Challenger**
- **De Havilland**
- **Dash 8**
- **Fokker**
70, 100
- **Gulfstream**
G III, G IV
- **Lockhead**
L-1011, C-5, C-130, C-141, P-3
- **McDonnell Douglas**
DC-10, MD-11, MD-80, C-17
- **RJ**
- **Saab**
SF-340

Helicopters

- **Aerospatiale**
- **Super Puma**
AS-332
- **Boeing / Bell Osprey**
V-22
- **Boeing Helicopter Chinook**
CH-47
- **McDonnell Douglas**
Helicopter Apache AH-64
- **Sikorsky**
Black Hawk UH-60, Series H-53

Distributed By:
Signal Test, Inc
1529 Santiago Ridge Way
San Diego, CA 92154
Tel. 1-619-575-1577 USA
www.SignalTestInc.com
Sales@SignalTestInc.com

SIGNAL TEST
New & Used Test Equipment

- Aircraft Manufacturers
- Aerospace Equipment Manufacturers
- Hangar
- Air Force Base
- Passenger Boarding Bridge (PBB)
- Aprons
- Control Tower
- Meter Control Center
- Air Force System Diagnostics
- Military System Diagnostics
- Navy System Diagnostics
- R&D Dept. of Military, Defense
- Military Equipment
- Power Supply for Warship
- Power Supply for Radar
- Rotary Engineer Manufacturers



AC POWER Corp.

Address: 3F., No.200, Gangqian Road,
Neihu District, Taipei City 11494, Taiwan
http://www.acpower.net
E-mail:sales@acpower.net

Headquarters: Taipei
Branch Offices:
Taipei Taichung Kaohsiung
Tianjin Beijing Qingdao Shenyang
Suzhou Shanghai Nanjing Kunshan
Guangzhou Shenzhen Dongguan Xiamen Fuzhou



[Service Tel]
Taipei: +886-2-2627 1899
Suzhou: +86-512-6809 8868
Tianjin: +86-22-8398 3777

No.: AMF-090213EN

The Power You Trust!